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Effects of Destruction of Petroleum Storage at
Hanoi and Haiphong on the War in South Vietnam

Responsibility

Summary

R/FP

I. Availability of Petroleum Storage Capacity in North Vietnam

1. Total Storage Capacity
2. Total in Bulk Storage
3. Total in Dispersed Storage
4. Total Storage at Hanoi
5. Total Storage at Haiphong

II. Consumption of Petroleum Available in North Vietnam

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1. Total Availability

- a. In 1965
- b. In 1966

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2. Civilian Requirements

- a. In 1965
- b. In 1966

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3. Military Requirements in North Vietnam

- a. In 1965
- b. In 1966

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4. Requirements for Support of War in South Vietnam

- a. In 1965
- b. In 1966

(1) With Current OB of 125 battalions in Main Force and Present Scale of Combat of 1 day in 30.

(2) With Build-up to 155 battalions in Main Force and Increase in Scale of Combat to 1 day in 7.

(3) With Build-up to Use of Infiltration Routes through Laos to Maximum Capacity.

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III. Physical Vulnerability of Petroleum Storage at Hanoi and
Haiphong

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1. Target Environment

- a. Location of Targets
- b. Probability of Civilian Casualties

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2. Recommended Method of Attack to Minimize Civilian
Casualties

- a. Technique of Attack
- b. Force Requirements
 - (1) Sorties
 - (2) Number, type and weight of bombs
- c. Estimate of Physical Destruction

IV. Estimated Direct Effects and Alternatives Resulting from
Destruction of Targets

1. Direct Effects

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- a. On Petroleum Distribution (through flow)
 - (1) To Other Bulk Storage Facilities
 - (2) To Dispersed Storage Facilities

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- b. On Availability of Petroleum
 - (1) For Civilian Use
 - (2) For Military Use in North Vietnam
 - (3) For Use in Support of War in South Vietnam

on Assumptions in II.4.b, above.

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2. Alternatives

- a. Reduction of Civilian and Military Requirements
in North Vietnam
- b. Off-Shore Transshipment of Petroleum from Coastal
Ships

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~~Summary~~

c. Use of Petroleum Storage and Transportation

Routes of China.

d. Use of Other Petroleum Storage and Transportation

Routes.

e. Use of Dispersed Storage.

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3. Vulnerabilities of Alternatives, Particularly 2.e.,
above.

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V. Conclusions

1. Impact on the Economy and Military in North Vietnam.
2. Impact on Support of War in South Vietnam under
Assumptions in II.4.b., above.

Graphics

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1. Map - Showing Distribution and Percent of Total Petroleum
Storage.

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2. City Plans *and* Mosaics Showing Targets in Hanoi and Haiphong.

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3. Photographs of New Dispersed Petroleum Storage Facilities.

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